ICD-B7

SERVICE MANUAL

Ver 1.0 2003. 01

US Model
Canadian Model
AEP Model
Tourist Model

SPECIFICATIONS

Recording media	Built-in flash memory, Monaural recording
Recording time	150 minutes
Frequency response	150 Hz - 3,500 Hz
Speaker	approx. 3.2 cm (1 5/16 in.) dia.
Power output	150 mW
Input/Output	• Earphone jack (minijack) for 8 - 300 ohms earphone/headphones • Microphone jack (minijack, monaural) Plug in power Minimum input level 0.6 mV 3 kilohms or lower impedance microphone
Power requirements	Two LR03 (size AAA) alkaline batteries: 3 V DC
Dimensions (w/h/d) (not incl. projecting parts and controls)	44.5 × 105.3 × 14.0 mm (1 13/16 × 4 1/4 × 9/16 in.)
Mass (incl. batteries)	68 g (2.4 oz)

Design and specifications are subject to change without notice.

IC RECORDER

9-877-003-01
2003A0400-1
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Personal Audio Company
Published by Sony Engineering Corporation

SONY®

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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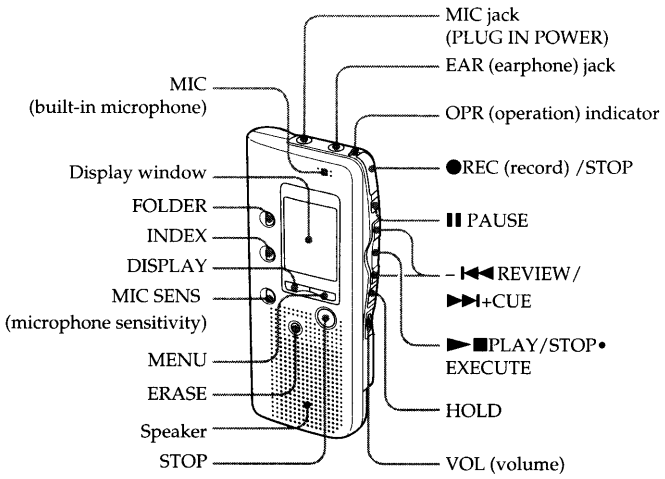
SECTION 1
GENERAL

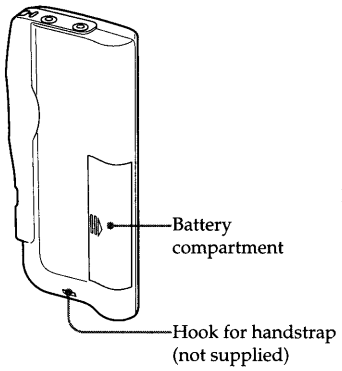
This section is extracted from instruction manual.

Index to Parts and Controls

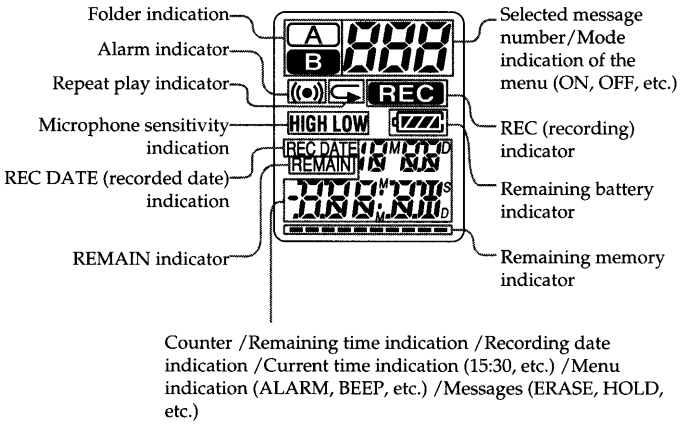
Main unit



Rear

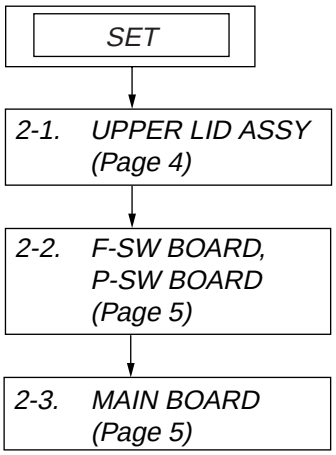


Display window



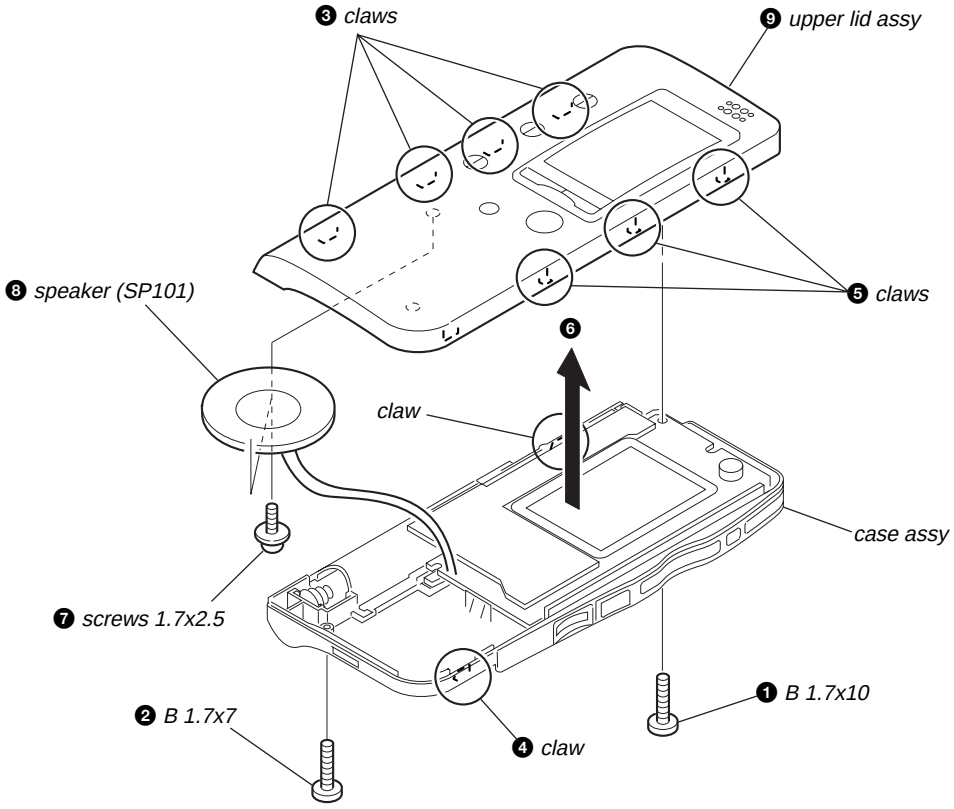
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

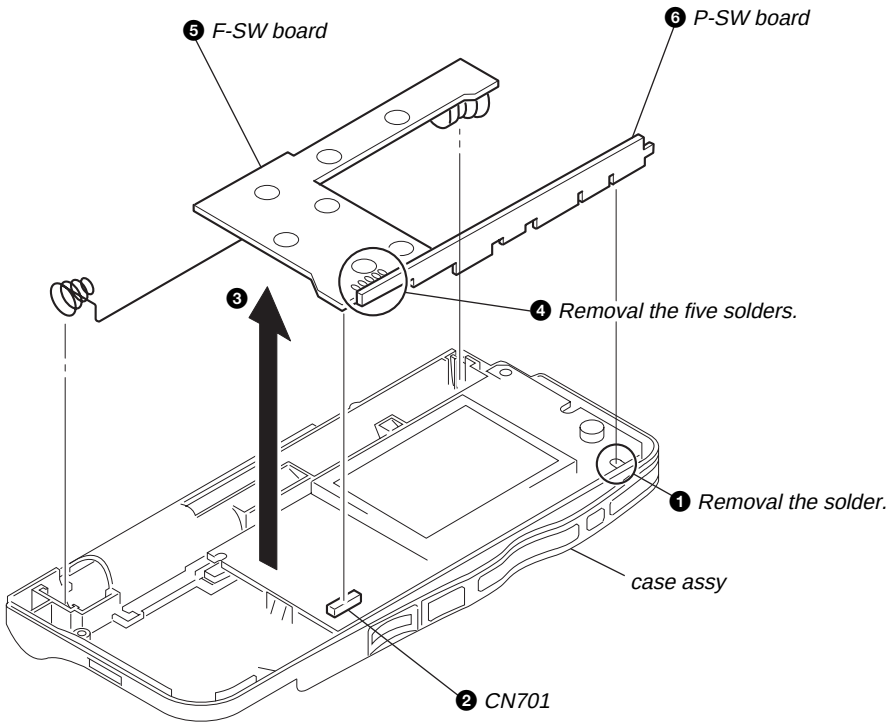


Note : Follow the disassembly procedure in the numerical order given.

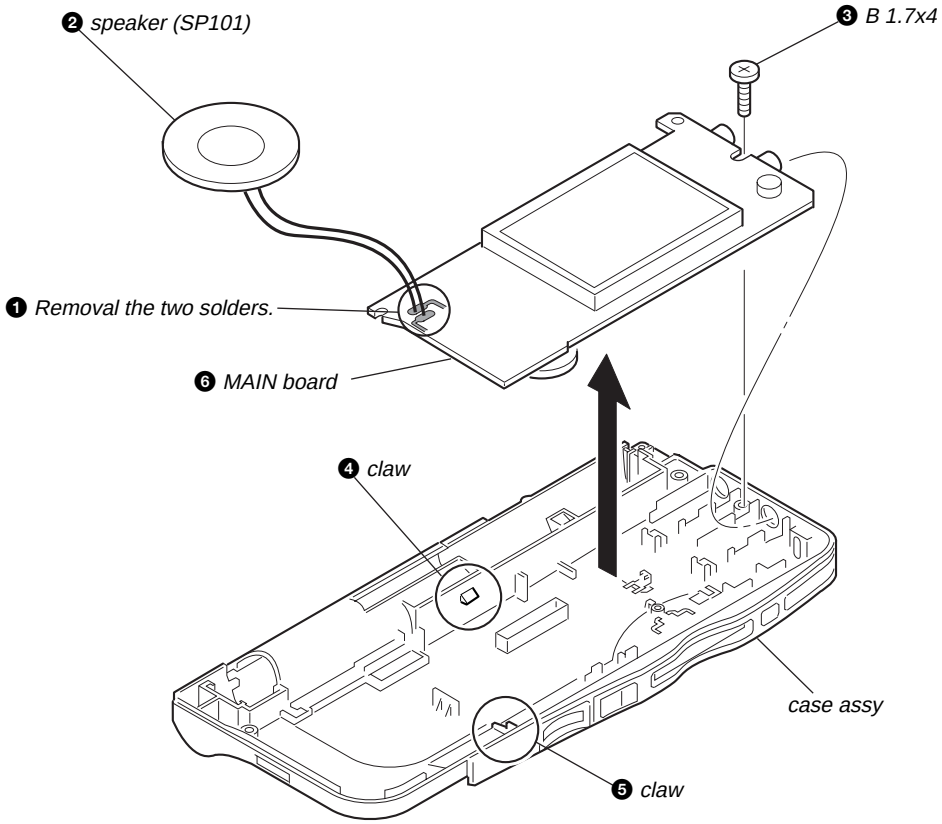
2-1. UPPER LID ASSY



2-2. F-SW BOARD, P-SW BOARD



2-3. MAIN BOARD



SECTION 3
DIAGRAMS

3-1. IC PIN DESCRIPTION

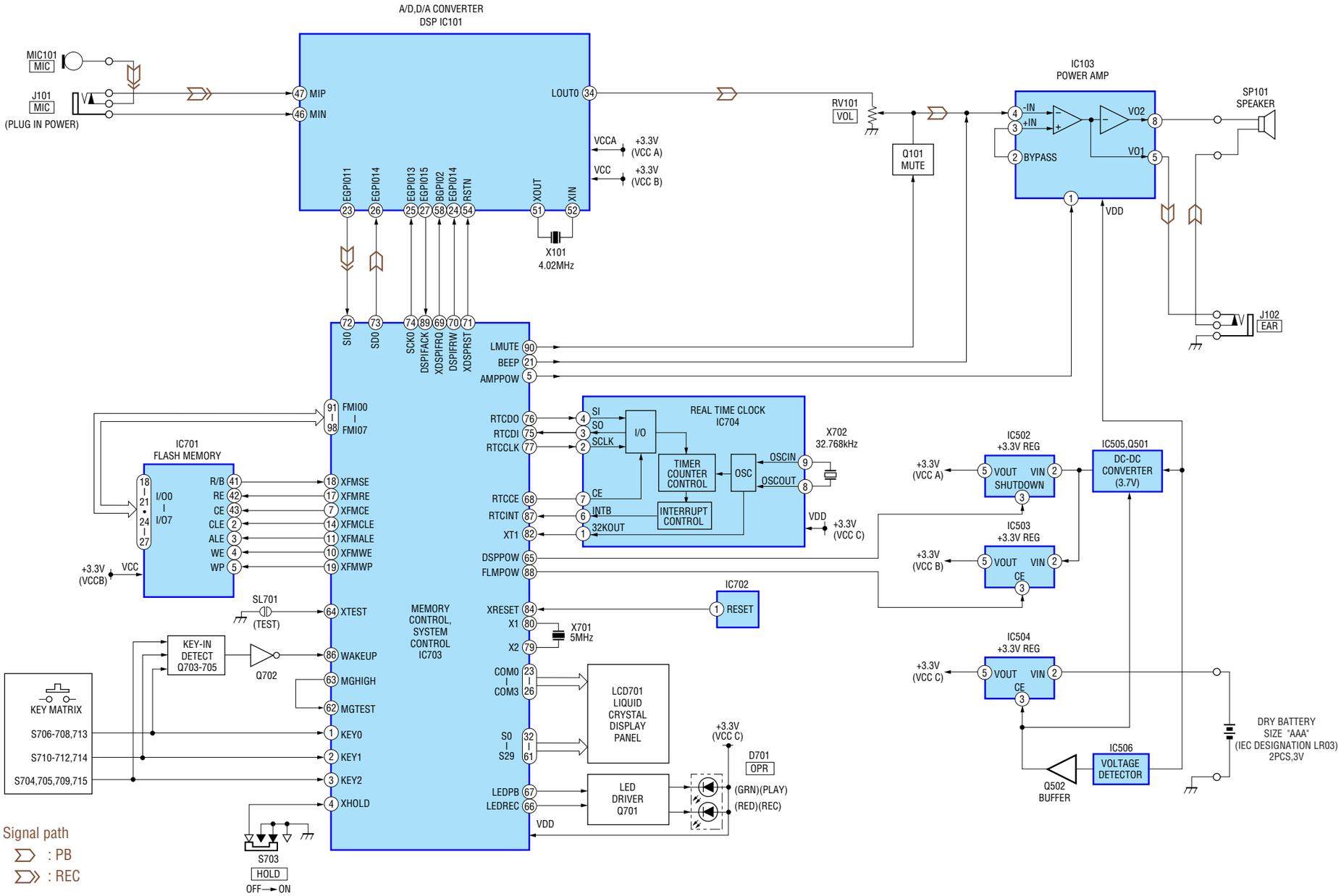
• IC703 µPD780308GC-A58-8EU (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1 to 3	KEY1 to 3	I	Key input
4	XHOLD	I	Hold switch input
5	AMPPOW	O	Power down control output for power amplifier IC (IC103).
6	AVREFON	O	A/D reference voltage input
7	XFMCE	O	Chip enable output for flash memory IC (IC701).
8	VDD0	—	Power supply pin
9	AVREF	—	A/D reference voltage
10	XFMWE	O	Write enable signal output for flash memory IC (IC701).
11	XFMALE	O	ALE signal output
12	VSS1	—	Ground
13	XFMR/B	I	Ready/Busy signal input from flash memory IC (IC701).
14	XFMCLE	O	CLE signal output for flash memory IC (IC701).
15, 16	NC	O	Not used. (Open)
17	XFMRE	O	Read enable signal output for flash memory IC (IC701).
18	XFMSE	O	SE signal output for flash memory IC (IC701).
19	XFMWP	O	WP signal output for flash memory IC (IC701).
20	CLKOUT	O	Not used. (Open)
21	BEEP	O	Beep signal output (2.4 kHz)
22	LIGHT	O	LCD back light control output
23 to 26	COM0 to 3	O	LCD common signal output
27	BIAS	O	Connect to VDD. (LCD bias)
28 to 30	VLC0 to 2	—	LCD drive power supply pin
31	VSS0	—	Ground
32 to 61	S0 to 29	O	LCD segment signal output
62	MGHIGH	I	Mic gain mode input (High: high mode)
63	MGTEST	O	Mic gain mode test output
64	XTEST	I	Test pin
65	DSPPOW	O	Digital signal processor registor control I/F enable signal output
66	LEDREC	O	OPR (REC) LED (D701: red) ON/OFF output
67	LEDPB	O	OPR (PLAY) LED (D701: green) ON/OFF output
68	RTCCE	O	Real time clock chip enable signal output
69	XDSPIFRQ	O	I/F request signal output for DSP IC (IC101).
70	DSPIFRW	O	I/F data read/write signal output for DSP IC (IC101).
71	XDSPRST	O	Reset signal output for A/D, D/A converter, DSP IC (IC101).
72	SI0	I	I/F data signal input for DSP IC (IC101).
73	SO0	O	I/F data signal output for DSP IC (IC101).
74	SCK0	O	I/F signal clock output for DSP IC (IC101).
75	RTCDI	I	Real time clock data input
76	RTCDO	O	Real time clock data and digital signal processor registor control data output
77	RTCCLK	O	Real time clock I/F data and digital signal processor registor control clock output
78	IC	—	Ground
79	X2	O	System clock output (5 MHz)
80	X1	—	System clock input (5 MHz)
81	VDD1	—	Power supply pin
82	XT1	—	Sub clock input (32.768 kHz)
83	XT2	—	Not used. (Open)
84	XRESET	I	Reset signal input
85	NC	—	Not used. (Open)

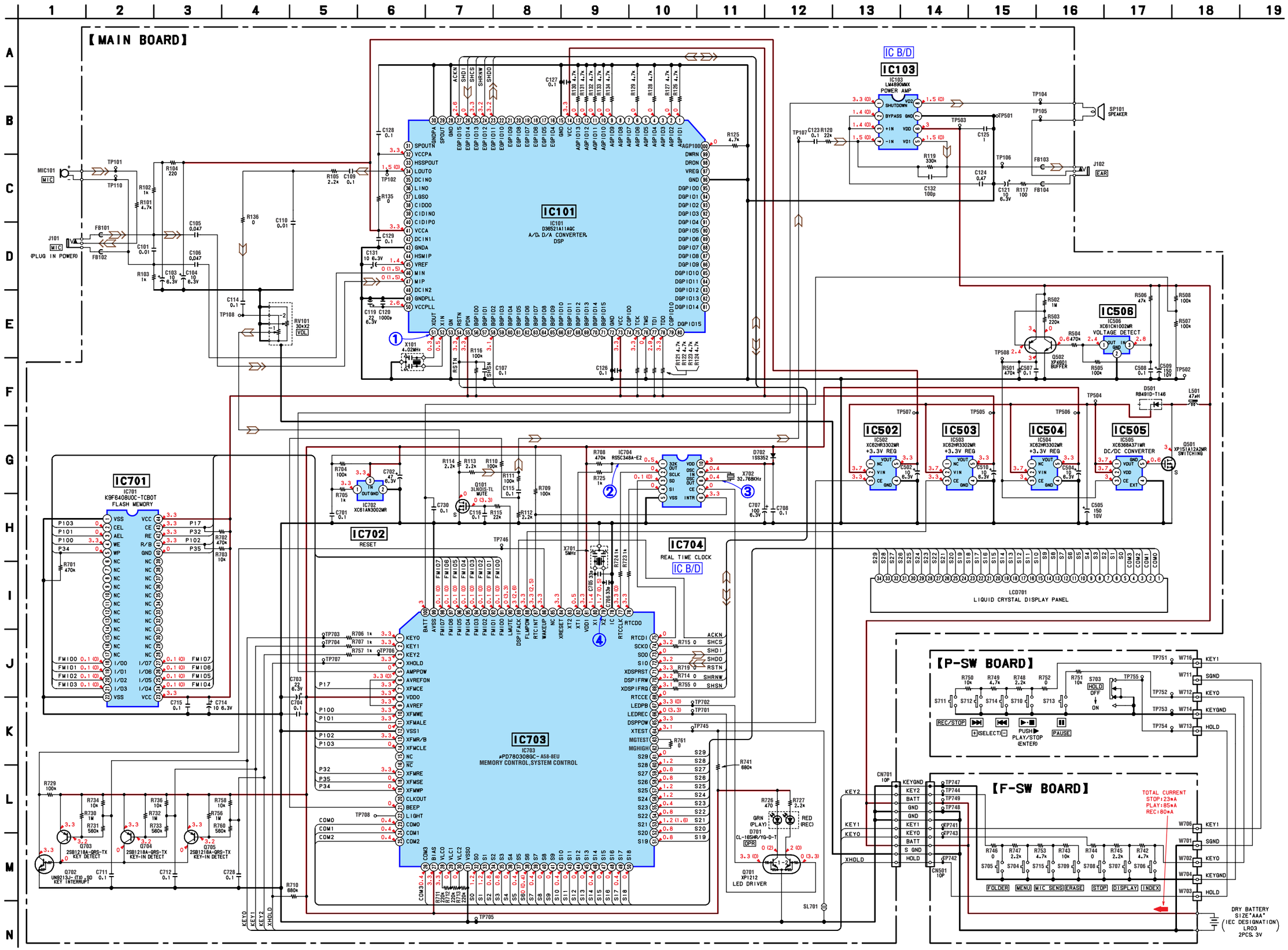
Pin No.	Pin Name	I/O	Pin Description
86	WAKEUP	I	WAKE UP signal input
87	RTCINT	I	Real time clock (2 Hz) signal input
88	FLMPOW	O	Flash memory power ON/OFF output
89	DSPIFACK	I	I/F acknowledge signal input for DSP IC (IC101).
90	LMUTE	O	Line mute ON/OFF signal output
91 to 98	FM_100 to 107	I/O	Data bus signal input/output
99	AVSS	—	Ground
100	BATT	I	Power supply voltage detection input

MEMO

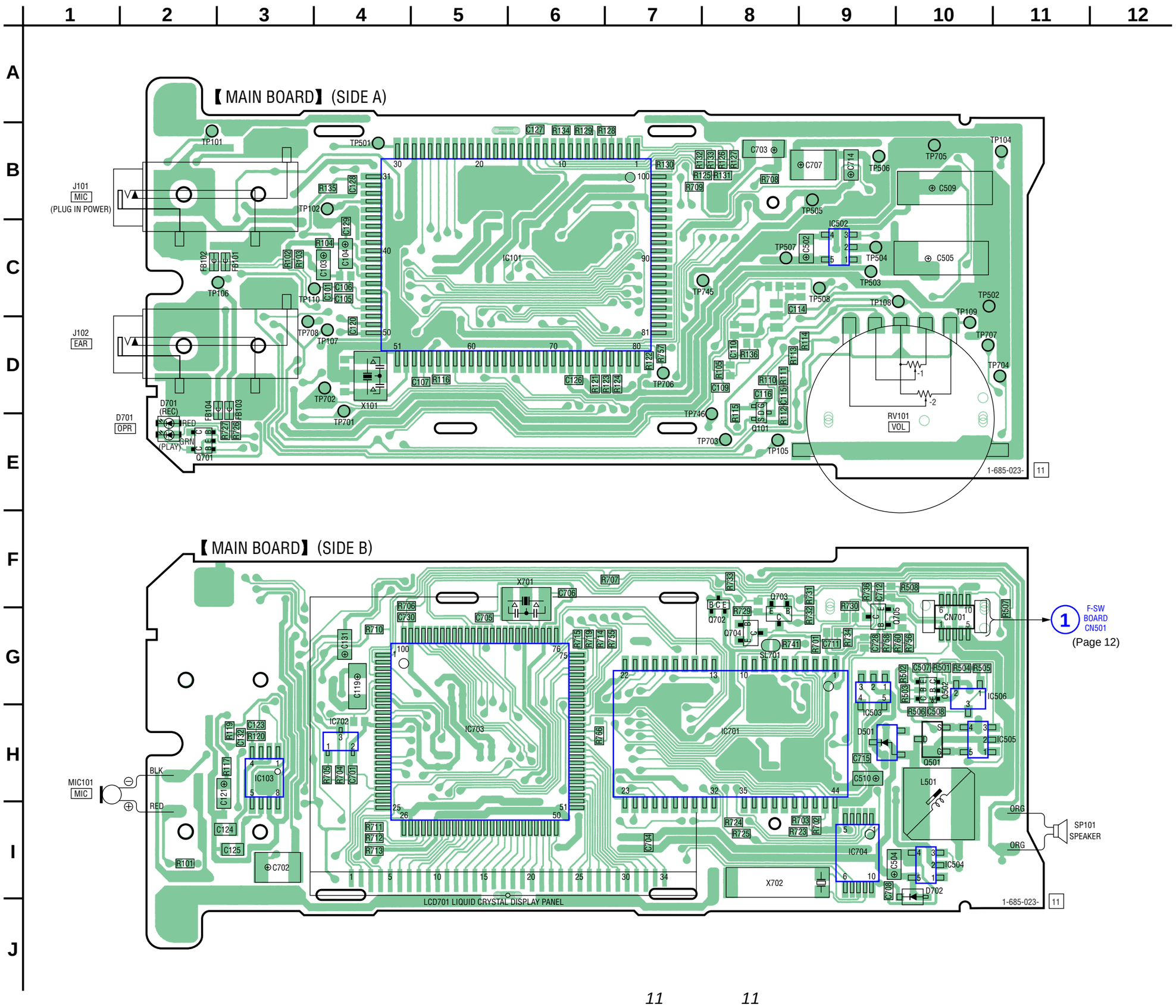
3-2. BLOCK DIAGRAM



3-3. SCHEMATIC DIAGRAM — MAIN SECTION — • Refer to page 14 for Common Note on Schematic Diagrams, Waveforms and IC Block Diagrams.



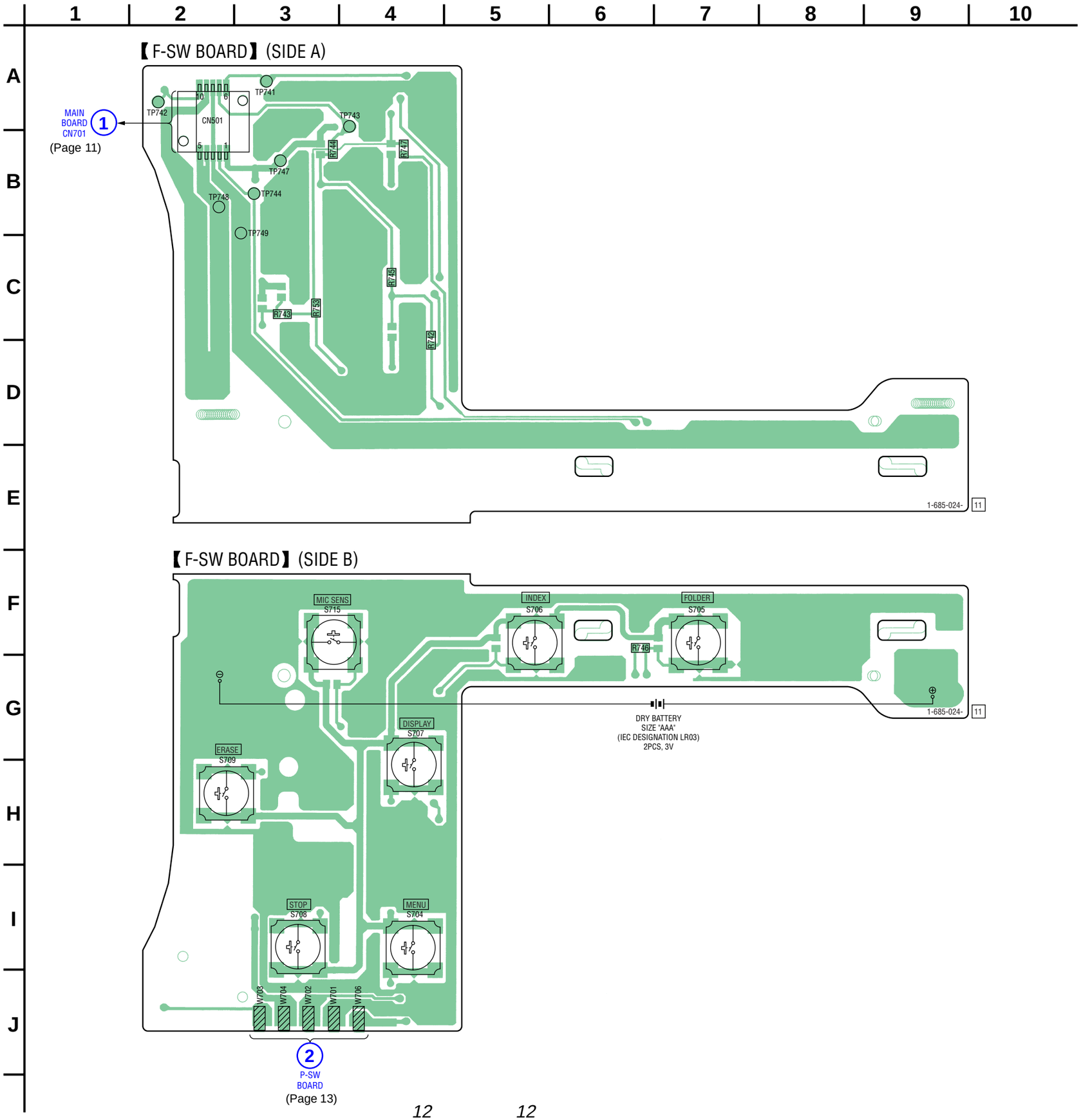
3-4. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 14 for Common Note on Printed Wiring Boards. : Uses unleaded solder.



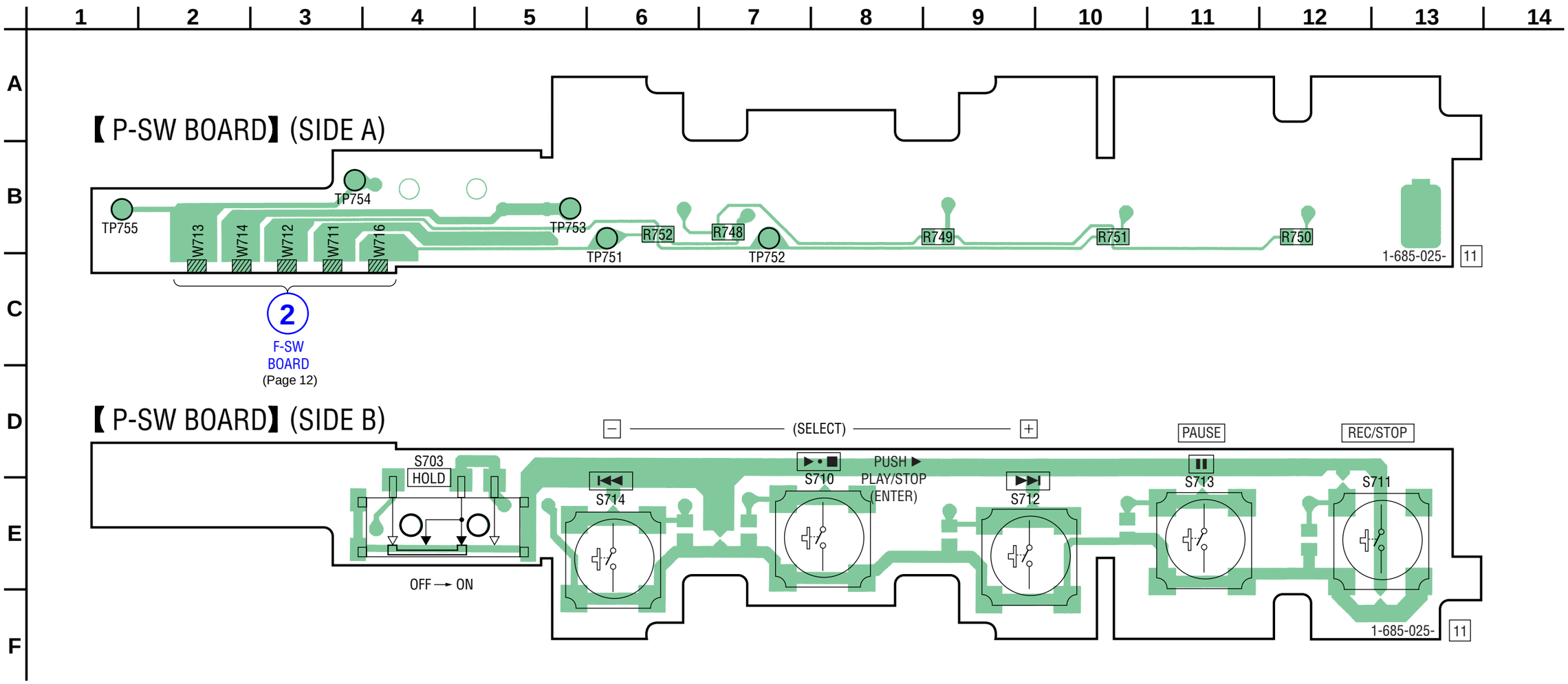
• **Semiconductor Location**

Ref. No.	Location
D501	H-9
D701	E-2
D702	I-10
IC101	C-5
IC103	H-3
IC502	C-9
IC503	G-9
IC504	I-10
IC505	H-10
IC506	G-10
IC701	H-8
IC702	H-4
IC703	H-5
IC704	I-9
Q101	E-8
Q501	H-10
Q502	G-10
Q701	E-2
Q702	G-8
Q703	G-8
Q704	G-8
Q705	G-9

3-5. PRINTED WIRING BOARD — F-SW SECTION — • Refer to page 14 for Common Note on Printed Wiring Boards. : Uses unleaded solder.



3-6. PRINTED WIRING BOARD — P-SW SECTION — • Refer to page 14 for Common Note on Printed Wiring Boards. : Uses unleaded solder.



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

Common Note on Schematic Diagrams:

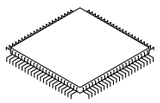
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- ▬ : B+ Line.
- Power voltage is dc 3V and fed with regulated dc power supply from battery terminal.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : PB
  ( ) : REC
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  Σ : PB
  Σ» : REC

Common Note on Printed Wiring Boards:

- o—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

Caution:	
Pattern face side: (SIDE B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE A)	Parts on the parts face side seen from the parts face are indicated.

- Lead Layouts



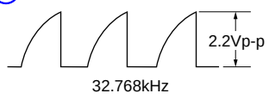
Lead layout of conventional IC

• Waveforms

① 0.5V/div 0.1µsec/div

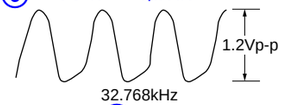
IC101 (51) (XOUT)

② 1.0V/div 10µsec/div



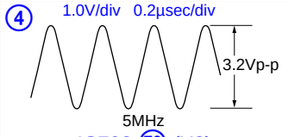
IC704 (1) (32KOUT)

③ 0.5V/div 10µsec/div



IC704 (8) (OSCOUT)

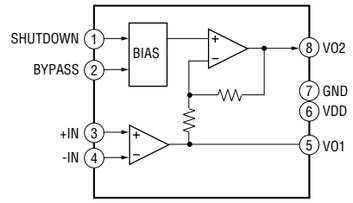
④ 1.0V/div 0.2µsec/div



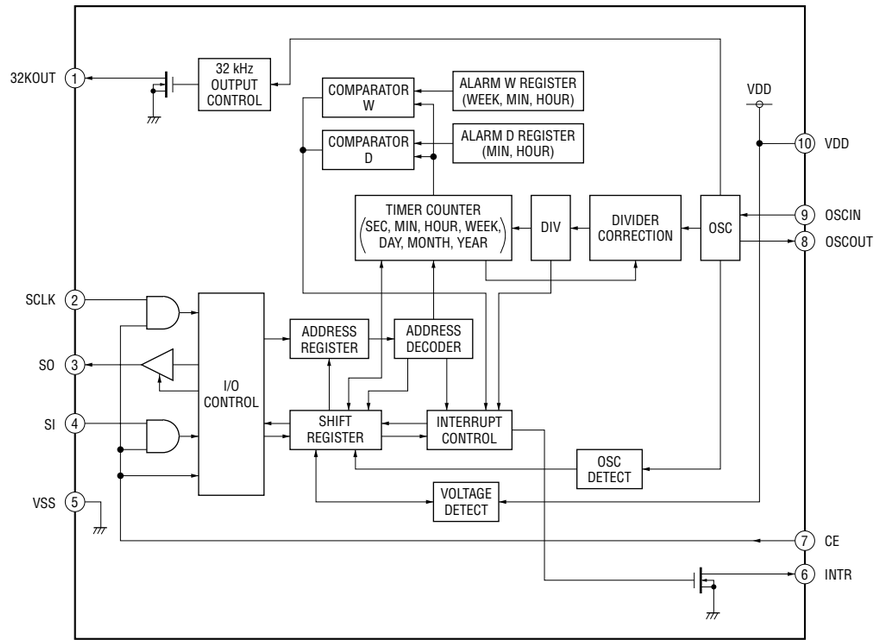
IC703 (79) (X2)

3-7. IC BLOCK DIAGRAMS

IC103 LM4890MMX



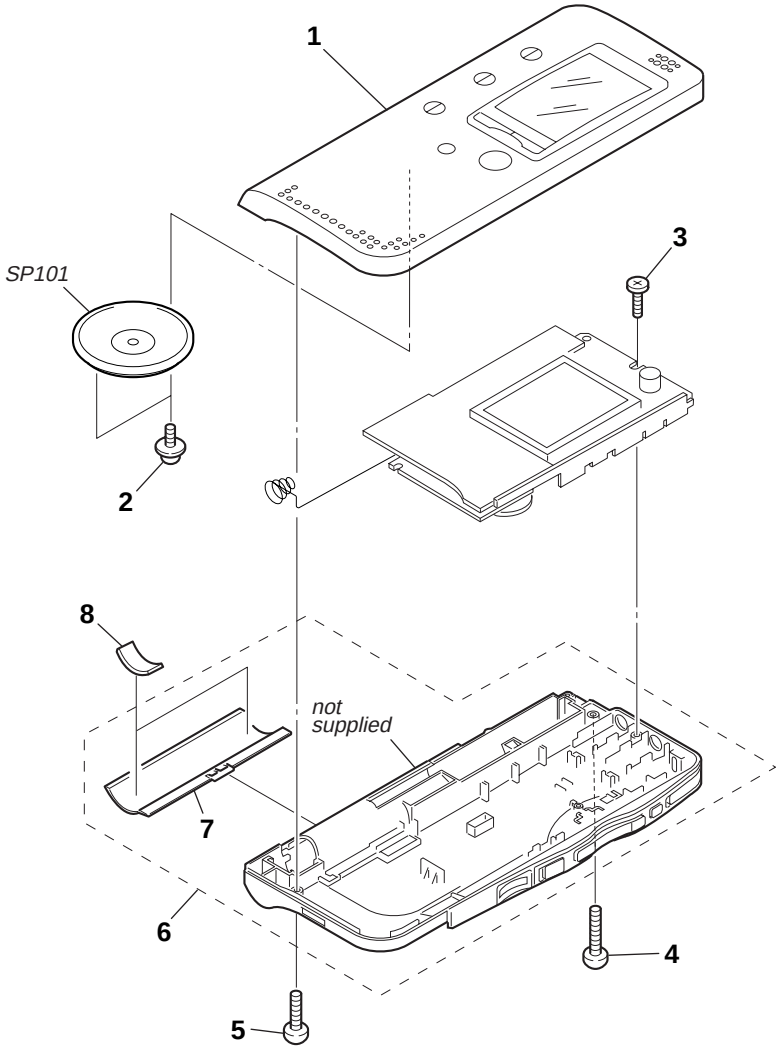
IC704 RS5C348A-E2



SECTION 4
EXPLODED VIEWS

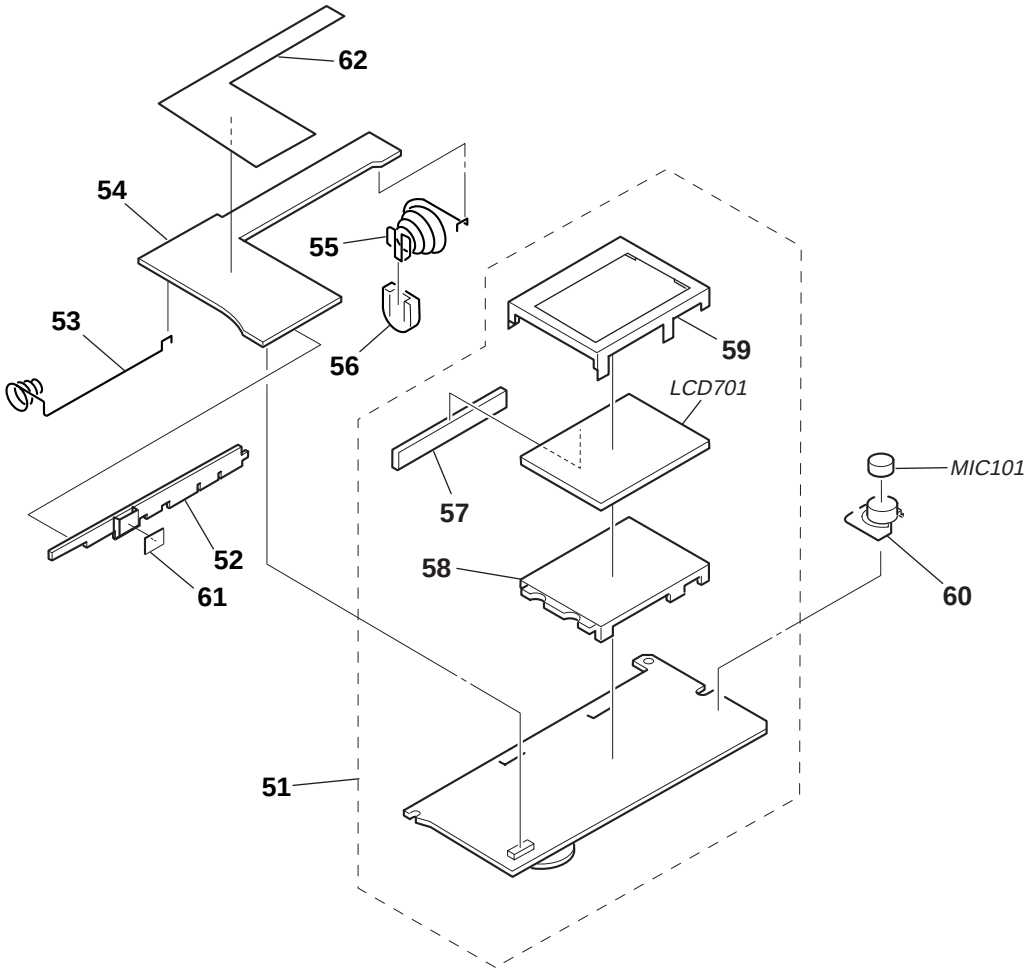
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories are given in the last of this parts list.

4-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	A-3355-884-A	LID ASSY, UPPER	
2	4-973-264-01	SCREW (1.7X2.5)	
3	3-318-203-62	SCREW (B1.7X4), TAPPING	
4	3-334-565-01	SCREW (B1.7X10), TAPPING	
5	3-318-203-81	SCREW (B1.7X7), TAPPING	
6	A-3355-883-A	CASE ASSY	
7	3-250-344-11	LID, BATTERY CASE	
8	3-250-363-01	CUSHION (BATT LID)	
SP101	1-825-127-21	SPEAKER (3.2cm)	

4-2. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
* 51	A-3347-945-A	MAIN BOARD, COMPLETE	
* 52	1-685-025-11	P-SW BOARD	
53	3-250-362-01	TERMINAL (–), BATTERY	
* 54	1-685-024-11	F-SW BOARD	
55	3-250-331-01	TERMINAL (+), BATTERY	
56	3-250-332-01	CAP (TERMINAL)	
57	1-694-773-31	CONDUCTIVE BOARD, CONNECTION	
58	3-250-351-01	LARGE (LCD), RETAINER	
59	3-250-352-01	HOLDER (LCD)	
60	3-250-350-01	CUSHION, MICROPHONE	
61	3-250-364-01	SPACER (HOLD)	
62	3-254-223-01	SHEET (FSW)	
LCD701	1-804-758-11	DISPLAY PANEL, LIQUID CRYSTAL	
MIC101	1-542-488-11	MICROPHONE, ELECTRET CAP (MIC)	

SECTION 5
ELECTRICAL PARTS LIST

F-SW | MAIN

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

When indicating parts by reference number, please include the board.

- Abbreviation
  CND : Canadian model
  JE : Tourist model

Ref. No.	Part No.	Description			Remark
*	1-685-024-11	F-SW BOARD			
		**********			
		< CONNECTOR >			
CN501	1-816-623-11	CONNECTOR, BOARD TO BOARD 10P			
		< RESISTOR >			
R742	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R743	1-218-965-11	RES-CHIP	10K	5%	1/16W
R744	1-218-990-11	SHORT CHIP	0		
R745	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R746	1-218-990-11	SHORT CHIP	0		
R747	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R753	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
		< SWITCH >			
S704	1-771-844-21	SWITCH, TACTILE (SMD) (MENU)			
S705	1-771-844-21	SWITCH, TACTILE (SMD) (FOLDER)			
S706	1-771-844-21	SWITCH, TACTILE (SMD) (INDEX)			
S707	1-771-844-21	SWITCH, TACTILE (SMD) (DISPLAY)			
S708	1-771-844-21	SWITCH, TACTILE (SMD) (STOP)			
S709	1-771-844-21	SWITCH, TACTILE (SMD) (ERASE)			
S715	1-771-844-21	SWITCH, TACTILE (SMD) (MIC SENS)			
**********					
*	A-3347-945-A	MAIN BOARD, COMPLETE			
		**********			
	1-694-773-31	CONDUCTIVE BOARD, CONNECTION			
	3-250-351-01	LARGE (LCD), RETAINER			
	3-250-352-01	HOLDER (LCD)			
		< CAPACITOR >			
C101	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C103	1-117-919-11	TANTAL. CHIP	10uF	20%	6.3V
C104	1-117-919-11	TANTAL. CHIP	10uF	20%	6.3V
C105	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C106	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C107	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C109	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C110	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C114	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C115	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C116	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C119	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V

Ref. No.	Part No.	Description			Remark
C120	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C121	1-117-919-11	TANTAL. CHIP	10uF	20%	6.3V
C123	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C124	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C125	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C126	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C127	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C128	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C129	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C131	1-117-919-11	TANTAL. CHIP	10uF	20%	6.3V
C132	1-164-931-11	CERAMIC CHIP	100PF	10%	50V
C502	1-117-919-11	TANTAL. CHIP	10uF	20%	6.3V
C504	1-117-919-11	TANTAL. CHIP	10uF	20%	6.3V
C505	1-117-368-11	TANTAL. CHIP	150uF	20%	10V
C507	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C508	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C509	1-117-368-11	TANTAL. CHIP	150uF	20%	10V
C510	1-117-919-11	TANTAL. CHIP	10uF	20%	6.3V
C701	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C702	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C703	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V
C704	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C705	1-164-862-11	CERAMIC CHIP	33PF	5%	50V
C706	1-164-862-11	CERAMIC CHIP	33PF	5%	50V
C707	1-128-964-11	TANTAL. CHIP	100uF	20%	6.3V
C708	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C711	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C712	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C714	1-117-919-11	TANTAL. CHIP	10uF	20%	6.3V
C715	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C728	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C730	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
		< CONNECTOR >			
CN701	1-816-624-21	CONNECTOR, BOARD TO BOARD 10P			
		< DIODE >			
D501	8-719-066-16	DIODE RB491D-T146			
D701	8-719-073-33	LED CL-165HR/YG-D-T (OPR)			
D702	8-719-016-74	DIODE 1SS352			
		< FERRITE BEAD >			
FB101	1-469-084-21	INDUCTOR, FERRITE BEAD			
FB102	1-469-084-21	INDUCTOR, FERRITE BEAD			

MAIN

Ref. No.	Part No.	Description	Remark
FB103	1-469-084-21	INDUCTOR, FERRITE BEAD	
FB104	1-469-084-21	INDUCTOR, FERRITE BEAD	
		< IC >	
IC101	6-702-339-01	IC D36521A11ZQC	
IC103	6-702-440-01	IC LM4890MMX	
IC502	8-759-657-74	IC XC62HR3302MR	
IC503	8-759-657-74	IC XC62HR3302MR	
IC504	8-759-657-74	IC XC62HR3302MR	
IC505	8-759-825-96	IC XC6368A371MR	
IC506	8-759-694-89	IC XC61CN1002MR	
IC701	6-702-439-01	IC K9F6408U0C-TCB0T	
IC702	8-759-333-42	IC XC61AN3002MR	
IC703	6-802-236-01	IC uPD780308GC-A58-8EU	
IC704	8-759-560-17	IC RS5C348A-E2	
		< JACK >	
J101	1-784-848-41	JACK (MIC (PLUG IN POWER))	
J201	1-784-848-41	JACK (EAR)	
		< COIL >	
L501	1-419-978-21	COIL, CHOKE 47uH	
		< LIQUID CRYSTAL DISPLAY >	
LCD701	1-804-758-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< TRANSISTOR >	
Q101	8-729-048-04	FET 3LN01S-TL	
Q501	8-729-053-03	TRANSISTOR XP151A12A2MR	
Q502	8-729-427-74	TRANSISTOR XP4601	
Q701	8-729-426-25	TRANSISTOR XP1212	
Q702	8-729-037-74	TRANSISTOR UN9213J-(TX).SO	
Q703	8-729-420-24	TRANSISTOR 2SB1218A-QRS	
Q704	8-729-420-24	TRANSISTOR 2SB1218A-QRS	
Q705	8-729-420-24	TRANSISTOR 2SB1218A-QRS	
		< RESISTOR >	
R101	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R102	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R103	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R104	1-218-945-11	RES-CHIP 220 5% 1/16W	
R105	1-218-957-11	RES-CHIP 2.2K 5% 1/16W	
R110	1-218-977-11	RES-CHIP 100K 5% 1/16W	
R111	1-218-977-11	RES-CHIP 100K 5% 1/16W	
R112	1-218-957-11	RES-CHIP 2.2K 5% 1/16W	
R113	1-218-957-11	RES-CHIP 2.2K 5% 1/16W	
R114	1-218-957-11	RES-CHIP 2.2K 5% 1/16W	
R115	1-218-969-11	RES-CHIP 22K 5% 1/16W	
R116	1-218-977-11	RES-CHIP 100K 5% 1/16W	
R117	1-218-941-81	RES-CHIP 100 5% 1/16W	
R119	1-218-983-11	RES-CHIP 330K 5% 1/16W	
R120	1-218-969-11	RES-CHIP 22K 5% 1/16W	
R121	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R122	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R123	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R124	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R125	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	

Ref. No.	Part No.	Description	Remark
R126	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R127	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R128	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R129	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R130	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R131	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R132	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R133	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R134	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
R135	1-218-990-11	SHORT CHIP 0	
R136	1-218-990-11	SHORT CHIP 0	
R501	1-218-985-11	RES-CHIP 470K 5% 1/16W	
R502	1-218-989-11	RES-CHIP 1M 5% 1/16W	
R503	1-218-981-11	RES-CHIP 220K 5% 1/16W	
R504	1-218-985-11	RES-CHIP 470K 5% 1/16W	
R505	1-218-977-11	RES-CHIP 100K 5% 1/16W	
R506	1-218-973-11	RES-CHIP 47K 5% 1/16W	
R507	1-208-935-11	METAL CHIP 100K 0.5% 1/16W	
R508	1-208-935-11	METAL CHIP 100K 0.5% 1/16W	
R701	1-218-985-11	RES-CHIP 470K 5% 1/16W	
R702	1-218-985-11	RES-CHIP 470K 5% 1/16W	
R703	1-218-965-11	RES-CHIP 10K 5% 1/16W	
R704	1-218-977-11	RES-CHIP 100K 5% 1/16W	
R705	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R706	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R707	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R708	1-218-985-11	RES-CHIP 470K 5% 1/16W	
R709	1-218-977-11	RES-CHIP 100K 5% 1/16W	
R710	1-218-987-11	RES-CHIP 680K 5% 1/16W	
R711	1-218-981-11	RES-CHIP 220K 5% 1/16W	
R712	1-218-981-11	RES-CHIP 220K 5% 1/16W	
R713	1-218-981-11	RES-CHIP 220K 5% 1/16W	
R714	1-218-990-11	SHORT CHIP 0	
R715	1-218-990-11	SHORT CHIP 0	
R719	1-218-990-11	SHORT CHIP 0	
R723	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R724	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R725	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R726	1-218-949-11	RES-CHIP 470 5% 1/16W	
R727	1-218-957-11	RES-CHIP 2.2K 5% 1/16W	
R729	1-218-977-11	RES-CHIP 100K 5% 1/16W	
R730	1-218-989-11	RES-CHIP 1M 5% 1/16W	
R731	1-218-986-11	RES-CHIP 560K 5% 1/16W	
R732	1-218-989-11	RES-CHIP 1M 5% 1/16W	
R733	1-218-986-11	RES-CHIP 560K 5% 1/16W	
R734	1-218-965-11	RES-CHIP 10K 5% 1/16W	
R736	1-218-965-11	RES-CHIP 10K 5% 1/16W	
R741	1-218-987-11	RES-CHIP 680K 5% 1/16W	
R755	1-218-990-11	SHORT CHIP 0	
R756	1-218-989-11	RES-CHIP 1M 5% 1/16W	
R757	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R758	1-218-965-11	RES-CHIP 10K 5% 1/16W	
R760	1-218-986-11	RES-CHIP 560K 5% 1/16W	
R761	1-218-990-11	SHORT CHIP 0	
		< VARIABLE RESISTOR >	
RV101	1-227-136-21	RES, VAR, CARBON 30KX2 (VOL)	

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X101	1-795-627-21	VIBRATOR, CERAMIC (CHIP TYPE) (4.02MHz)			
X701	1-795-628-21	VIBRATOR, CERAMIC (CHIP TYPE) (5MHz)			
X702	1-767-994-23	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	1-685-025-11	P-SW BOARD			
		**********			
		< RESISTOR >			
R748	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R749	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R750	1-218-965-11	RES-CHIP	10K	5%	1/16W
R751	1-218-965-11	RES-CHIP	10K	5%	1/16W
R752	1-218-990-11	SHORT CHIP	0		
		< SWITCH >			
S703	1-572-922-11	SWITCH, SLIDE (HOLD)			
S710	1-771-844-21	SWITCH, TACTILE (SMD) (►• ■ (PUSH ► PLAY/STOP (ENTER))			
S711	1-771-844-21	SWITCH, TACTILE (SMD) (REC/STOP)			
S712	1-771-844-21	SWITCH, TACTILE (SMD) (►►I (SELECT +))			
S713	1-771-844-21	SWITCH, TACTILE (SMD) (PAUSE ▮▮)			
S714	1-771-844-21	SWITCH, TACTILE (SMD) (I◄◄ (SELECT –))			
**********					
		MISCELLANEOUS			
		**********			
MIC101	1-542-488-11	MICROPHONE, ELECTRET CAP (MIC)			
SP101	1-825-127-21	SPEAKER (3.2cm)			
**********					
		ACCESSORIES			
		**********			
	3-250-381-11	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (JE)			
	3-250-381-21	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (JE)			
	3-250-691-11	MANUAL, INSTRUCTION (ENGLISH)			
	3-250-691-21	MANUAL, INSTRUCTION (FRENCH) (CND,AEP)			
	3-250-691-31	MANUAL, INSTRUCTION (SPANISH) (AEP,JE)			
	3-250-691-41	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)			
	3-250-691-51	MANUAL, INSTRUCTION (GERMAN) (AEP)			
	3-250-691-61	MANUAL, INSTRUCTION (DUTCH) (AEP)			
	3-250-691-71	MANUAL, INSTRUCTION (SWEDISH) (AEP)			
	3-250-691-81	MANUAL, INSTRUCTION (ITALIAN) (AEP)			
	3-250-691-91	MANUAL, INSTRUCTION (KOREAN) (JE)			

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2003. 01	New